



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date	December 4, 2015	EPA Reg No./File Symbol	279-3313	Page 1 of 16	
Applicant's/Registrant's Name & Address FMC Corporation, Agricultural Products Group 1735 Market Street Philadelphia, PA 19103		Product: Brigade 2EC Insecticide/Miticide			
Ingredient Bifenthrin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note

Product Specific Data Requirements

830.1700	Preliminary Analysis	41539001	FMC Corporation	OWN	
830.1550	Product Identity and Composition	41539001	FMC Corporation	OWN	
830.1600	Description of Materials Used to Produce the Product	41539001	FMC Corporation	OWN	
830.1650	Description of Formulation Process	41539001	FMC Corporation	OWN	
830.1670	Discussion of Formation of Impurities	41539001	FMC Corporation	OWN	
830.1750	Certified Limits	41539001	FMC Corporation	OWN	
830.1800	Enforcement Analytical Method	41539001	FMC Corporation	OWN	
830.6302	Color	41539001	FMC Corporation	OWN	
830.6303	Physical State	41539001	FMC Corporation	OWN	
830.6304	Odor	41539001	FMC Corporation	OWN	
830.6314	Oxidizing/Reducing Action	41539001	FMC Corporation	OWN	
830.6315	Flammability	41539001	FMC Corporation	OWN	
830.6316	Explodability	41539001	FMC Corporation	OWN	

Signature 	Name and Title: Janelle Gunning Product Registration Manager	Date 12/4/2015
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Applicant's/Registrant's Name & Address
FMC Corporation, Agricultural Product Group
1735 Market Street
Philadelphia, PA 19103

Product:
Brigade 2EC Insecticide/Miticide

Ingredient
Bifenthrin

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6317	Storage Stability	41539001	FMC Corporation	OWN	
830.6319	Miscibility	41539001	FMC Corporation	OWN	
830.6320	Corrosion Characteristics	41539001	FMC Corporation	OWN	
830.6321	Dielectric Breakdown Voltage	41539001	FMC Corporation	OWN	
830.7000	pH	41539001	FMC Corporation	OWN	
830.7100	Viscosity	41539001	FMC Corporation	OWN	
830.7300	Density	41539001	FMC Corporation	OWN	
830.1900	Submittal of Samples	41539001	FMC Corporation	OWN	
870.1100	Acute Oral Toxicity	41539002	FMC Corporation	OWN	
870.1200	Acute Dermal Toxicity	41539003	FMC Corporation	OWN	
870.1300	Acute Inhalation Toxicity	41539004	FMC Corporation	OWN	
870.2400	Primary Eye Irritation	41539005	FMC Corporation	OWN	
870.2500	Primary Skin Irritation	41539006	FMC Corporation	OWN	
870.2600	Dermal Sensitization	41539007	FMC Corporation	OWN	
Generic Testing					
870.3100	90-day oral toxicity- rat	00141199	FMC Corporation	OWN	
870.3150	90-day oral toxicity- dog	00141200	FMC Corporation	OWN	



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Applicant's/Registrant's Name & Address FMC Corporation, Agricultural Product Group 1735 Market Street Philadelphia, PA 19103	Product: Brigade 2EC Insecticide/Miticide	

Ingredient
Bifenthrin

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.3700	Developmental toxicity (gavage)- rat	00141210 00154482	FMC Corporation	OWN	
870.3700	Developmental toxicity (dietary)- rat	45322301	FMC Corporation	OWN	
870.3700	Developmental toxicity- rabbit	00145997	FMC Corporation	OWN	
870.3800	Multigenerational reproductive toxicity- rat	00157225	FMC Corporation	OWN	
870.4100	Chronic toxicity- dog	00163065	FMC Corporation	OWN	
870.4300	Chronic toxicity/Carcinogenicity- rat	00157226	FMC Corporation	OWN	
870.4200	Carcinogenicity- mouse	00157227	FMC Corporation	OWN	
870.6200a	Acute neurotoxicity- rat	44862102	FMC Corporation	OWN	
870.6200b	Sub acute neurotoxicity- rat	44862103	FMC Corporation	OWN	
870.6300	Developmental neurotoxicity- rat	46750501	FMC Corporation	OWN	
870.3200	Dermal toxicity- rabbit	00141198	FMC Corporation	OWN	
870.3200	Dermal toxicity- rat	45280501	FMC Corporation	OWN	



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FMC Corporation, Agricultural Product Group
1735 Market Street
Philadelphia, PA 19103

Product:
Brigade 2EC Insecticide/Miticide

Ingredient
Bifenthrin

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.7485	Metabolism- rat	00163066 00163067 00163068 00163069 00163070 00163071 40415102 40415100	FMC Corporation	OWN	
870.7600	Dermal penetration- rat	00163072 41284202 41917502 41917503	FMC Corporation	OWN	
860.1300	Nature of the Residue- Plants	00163075 40257901 40257902	FMC Corporation	OWN	
860.1300	Nature of the Residue- Livestock	00163076 00163077 40384401 40384405	FMC Corporation	OWN	
860.1340	Residue Analytical Method- Plant commodity	40257903	FMC Corporation	OWN	



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Ingredient Bifenthrin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1340	Residue Analytical Method- Livestock commodity	00163078 40257905 40384407 40384409 40384411 42927802 43641801 44165201 44455501 44455502	FMC Corporation	OWN	
860.1360	MRM	40257907	FMC Corporation	OWN	



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Ingredient Bifenthrin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1380	Storage Stability- livestock commodities	41858111 42357102 42357103	FMC Corporation	OWN	
860.1480	Magnitude of residue MMPE -Fat, meat and meat byproducts of cattle, goat, horse, hog, sheep	40257910 41858102	FMC Corporation	OWN	
860.1480	-Milk	40257911 40257912	FMC Corporation	OWN	2001 and older
860.1480	-Eggs, fat, meat and meat byproducts of poultry	40384406 40384408 40384410	FMC Corporation	OWN	
860.1500	Crop Field Trials				
860.1500	-Leafy vegetables (head lettuce)	44869601	FMC Corporation	OWN	
860.1500	-Brassica, leafy vegetables	44756301 44756303 44756302	FMC Corporation	OWN	
860.1500	-Legume vegetable group	44746801 44581101 44581102	FMC Corporation	OWN	
860.1500	-Eggplant	44616901	FMC Corporation	OWN	



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Ingredient Bifenthrin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	-Pepper, bell	44870501	FMC Corporation	OWN	
860.1500	-Pepper, non-bell	44870502	FMC Corporation	OWN	
860.1500	-Cucurbit crop group	44056501 44056502 44056503	FMC Corporation	OWN	
860.1500	Corn, fodder and forage (field)	40257908 41858103 41858108 41894602 41894603	FMC Corporation	OWN	
860.1500	-Corn, fodder and forage (sweet)	44620602 44805701	FMC Corporation	OWN	
860.1500	-Tomato	45440401 45605601	FMC Corporation	OWN	
860.1500	-Spinach	45579801 45579802	FMC Corporation	OWN	
860.1500	-Processed Food/Feed- corn, field	41858104 41858105 41894604	FMC Corporation	OWN	
860.1500	-Cilantro	46279701	IR-4	Public	



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Ingredient Bifenthrin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	-Tuberous and corm vegetables	45794202	FMC	OWN	
860.1500	-Leafy brassica greens	45660301	IR-4	Public	
860.1500	-Dried shelled peas and beans	45624701	FMC	OWN	
860.1500	-Blueberries	47144501	IR-4	Public	
860.1500	-Celery	43844101 45286701 47144502	IR-4	Public	
860.1500	-Grass	47920801	IR-4	Public	
860.1500	Tea	47920802 47920803 47920804 47920805 47920806 47920807 47920808 47920809 47920810	IR-4	Public	
860.1500	Hops	49167001	Bifenthrin Task Force	OWN	
860.1500	Artichoke	49180801	Bifenthrin Task Force	OWN	
860.1500	Grapes	49180802	Bifenthrin Task Force	OWN	
860.1500	- Avocado	49821703	IR-4	Public	



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Product:
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Ingredient
Bifenthrin

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	- Apple	49821701	IR-4	Public	
860.1500	- Peach	49821702	IR-4	Public	
860.1500	- Pomegranate	49821705	IR-4	Public	
860.1500	- Greens (Mustard)	49821704	IR-4	Public	
158.290	Environmental Fate Data				
161-1	Hydrolysis	00132539	FMC Corporation	OWN	
835.2120	Hydrolysis at pH 4, 7, and 9	49138403	Bifenthrin Task Force	OWN	
161-2	Photodegradation- Water	00163084 40414001 48882501	FMC Corporation	OWN	
161-3	Photodegradation- Soil	00163085	FMC Corporation	OWN	
162-1	Aerobic Soil Metabolism	00141202 00152266 00163086 00163087 40414001	FMC Corporation	OWN	
162-1	Aerobic Soil Metabolism (continued)	48882502	FMC Corporation	OWN	
162-2	Anaerobic Soil Metabolism	00163088 48882503	FMC Corporation	OWN	



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Ingredient
Bifenthrin

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
835.4300	Aerobic Aquatic Metabolism	48882504	FMC Corporation	OWN	
163-1	Leaching/ Adsorption-Desorption	00163089	FMC Corporation	OWN	
835.1230	Soil Adsorption/Desorption	49175401	Bifenthrin Task Force	OWN	
163-2	Laboratory Volatility	00163090 40414001 40581601 41220601	FMC Corporation	OWN	
164-1	Soil Dissipation	00163091 40414001 40581601	FMC Corporation	OWN	
165-1	Rotational Crops	00163093 40414001	FMC Corporation	OWN	
860.1850	Confined rotational crop	42039601	FMC Corporation	OWN	
165-4	Fish Accumulation	00163094 00163095 40414001	FMC Corporation	OWN	
860.1900	Field accumulation	45306501	FMC Corporation	OWN	
850.7100	ILV Method for Water and Soil	49024201	Bifenthrin Task Force	OWN	
850.7100	ILV Method for Water and Soil	49189001	Bifenthrin Task Force	OWN	
850.7100	ILV Method for Sediment	49168201	Bifenthrin Task Force	OWN	



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Ingredient
Bifenthrin

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
158.490	Toxicology Fish & Wildlife				
71-1	Avian Oral LD50- Quail	00132532	FMC Corporation	OWN	
71-1	Avian Oral LD50- Mallard	00132534	FMC Corporation	OWN	
71-2	Avian LC50- Quail	00132533	FMC Corporation	OWN	
71-2	Avian LC50- Mallard	00132535	FMC Corporation	OWN	
71-4	Avian Reproduction- Quail	00163097 00163098 40266301	FMC Corporation	OWN	
71-4	Avian Reproduction- Mallard	00163099 00163100	FMC Corporation	OWN	
72-1	Freshwater Fish LC50- Trout	00163156	FMC Corporation	OWN	
72-1	Freshwater Fish LC50- Bluegill	00132536	FMC Corporation	OWN	
72-2	Acute LC50 Freshwater Invertebrates	00132537	FMC Corporation	OWN	
72-3	Acute LC50 Estuarine- Mysid	00163102	FMC Corporation	OWN	
72-3	Acute LC50 Estuarine- Minnow	00163101	FMC Corporation	OWN	
72-3	Acute LC50 Estuarine- Oyster	00163103 40266501 40383502	FMC Corporation	OWN	
72-3	Acute LC50- Mollusk	40447601	FMC Corporation	OWN	



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Ingredient Bifenthrin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
72-4	Fish Early Life Stage- Freshwater	40447601 41156501 42338801 41640501	FMC Corporation	OWN	
72-4	Fish Early Life Stage- Estuarine	40447601	FMC Corporation	OWN	
72-5	Fish Life Cycle	40447601 40791301 41032101 41134701	FMC Corporation	OWN	
72-6	Aquatic Organism Accumulation	40447601	FMC Corporation	OWN	
850.4450	96-hour Toxicity Test with Freshwater Cyanobacterium	49060101	Bifenthrin Task Force	OWN	
850.1035	Acute Toxicity to Mysids	49060102	Bifenthrin Task Force	OWN	
850.5400	96-hour Toxicity Test with Freshwater Green Alga	49098201	Bifenthrin Task Force	OWN	
850.4500	96-hour Toxicity Test with Marine Diatom	49098202	Bifenthrin Task Force	OWN	
850.4500	96-hour Toxicity Test with Freshwater Diatom	49116101	Bifenthrin Task Force	OWN	
850.4400	7-day Toxicity Test with Duckweed	49134901	Bifenthrin Task Force	OWN	
850.4100	Seedling Emergence Test	49138401	Bifenthrin Task Force	OWN	
850.4150	Vegetative Vigor Test, Tier I and Tier II	49138402	Bifenthrin Task Force	OWN	
850.2100	Canary: Oral Acute Toxicity Test	49163801	Bifenthrin Task Force	OWN	



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Ingredient Bifenthrin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
158.590	Non-Target Insects				
141-2	Toxicity of Residues on Foliage	40447601	FMC Corporation	OWN	
141-1	Acute Toxicity- Honeybee	00132538	FMC Corporation	OWN	
SS-1099	Leachability from Treated Wood	47454101 47454102	FMC Corporation	OWN	
	Endocrine Disruption Screening Program				
N/A	OSRI	48116101	Bifenthrin Task Force	OWN	
890.1100	Amphibian Metamorphosis (Frog)	48675901	Bifenthrin Task Force	OWN	
890.1150	Androgen Receptor Binding (Rat Prostate)	48615001	Bifenthrin Task Force	OWN	
890.1200	Aromatase (Human Recombinant)	48615002	Bifenthrin Task Force	OWN	
890.1250	Estrogen Receptor Binding	48615003	Bifenthrin Task Force	OWN	
890.1300	Estrogen Receptor Transcriptional Activation	48615004	Bifenthrin Task Force	OWN	
890.1350	Fish Short-Term Reproduction	48675902	Bifenthrin Task Force	OWN	
890.1400	Hershberger (Rat)	48615005	Bifenthrin Task Force	OWN	
890.1450 890.1500	Female Pubertal (Rat) Male Pubertal (Rat)	48669401	Bifenthrin Task Force	OWN	
890.1550	Steroidogenesis	48615006	Bifenthrin Task Force	OWN	



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Ingredient Bifenthrin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
890.1600	Uterotrophic (Rat)	48615007	Bifenthrin Task Force	OWN	
Other Task Forces					
All	All	Cite All	Pyrethroid Working Group	OWN	



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Ingredient Bifenthrin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note

All	All	Cite All	Spray Drift Task Force	OWN	
All	All	Cite All	Outdoor Residential Exposure Task Force	OWN	
All	All	Cite All	Agricultural Reentry Task Force	OWN	
All	All	Cite All	FIFRA Endangered Species Task Force	OWN	
All	All	Cite All	Agricultural Handler Exposure Task Force	OWN	
All	All	Cite All	Residential Exposure Joint Venture	OWN	

Signature 	Name and Title: Janelle Gunning Product Registration Manager	Date 12/4/2015
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